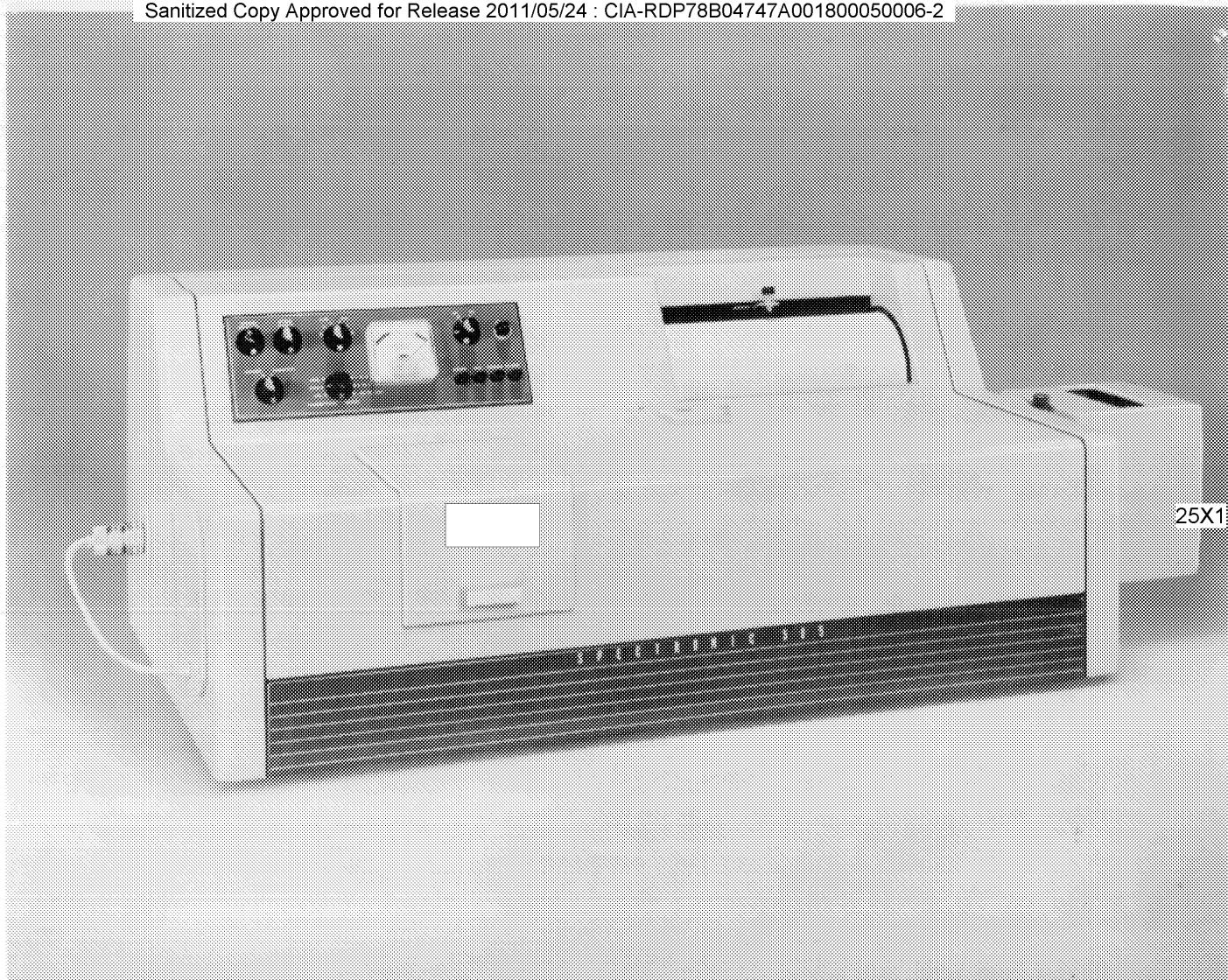


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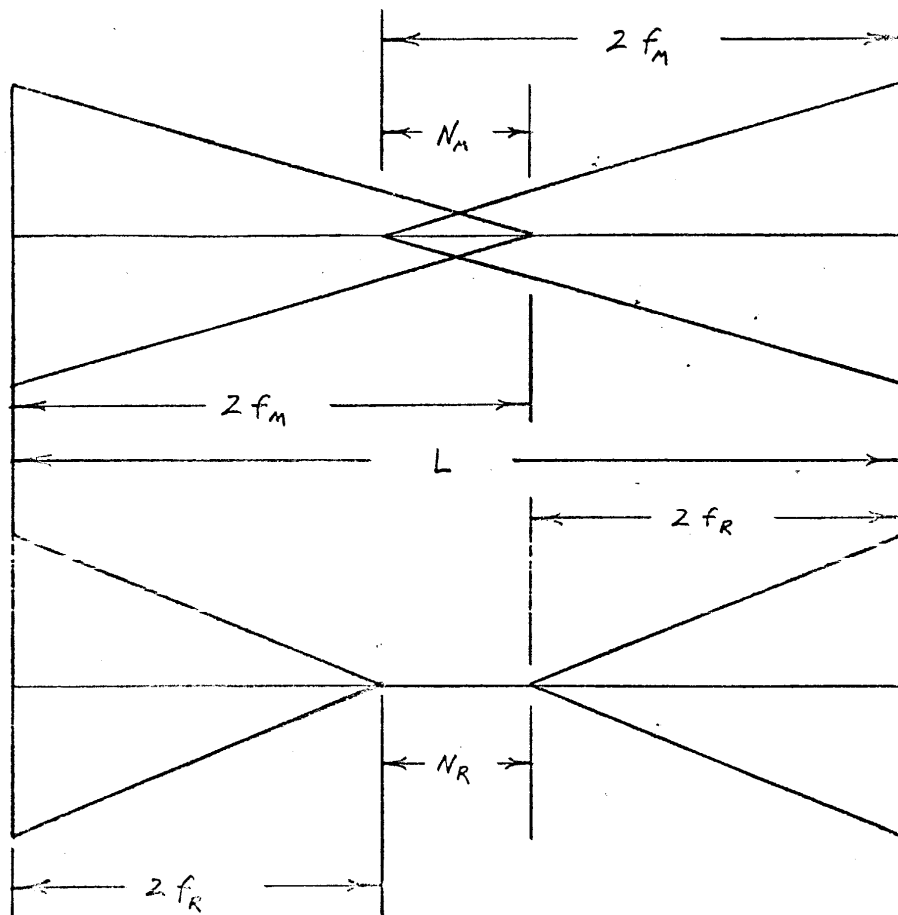
SPECTRONIC 505 SPECTROPHOTOMETER

This is a double-beam, double-grating Automatic Recording Spectrophotometer. It is a precise analytical instrument which makes a permanent record of the ultraviolet (200 - 400mu) and visible (400 - 700mu) spectral energy transmitted through, reflected from, and emitted by a wide variety of solid, liquid and gaseous samples of almost any size and shape can be rapidly recorded with minimum effort. The instrument records curves of even the most complex spectra with a high degree of accuracy leaving the operator free to complete other important research or lab duties.

INSTRUMENT DATA

Wavelength Range	200 - 700mmu (Selected photomultipliers extend range to 190mmu and 800mmu)
Band width	5 and 50 angstroms (Also 2 and 50 angstroms if desired)
Accuracy:	
Wavelength	-0.5mmu
Photometric	-0.005 at 0.4D
Reproducibility:	
Wavelength	-0.5mmu
Photometric	-0.005 at 0.4D
Repeatability:	
Wavelength	-0.2mmu
Photometric	-0.003 at 0.4D
Stray Light	0.1% at 220mmu
Flatness of 100% Line (Peak to Peak)	2%
Flatness of 0% Line	0.25%
Scanning Time	6 speeds
Dispersion	2 gratings 1200 grooves/mm 16A/mm

not for AF unit



METROGON
LENS

f = FOCAL LENGTH
 N = NODAL SEPARATION
 L = SEPARATION OF
 OBJECT & IMAGE
 PLANES.

RETROGON
LENS

$$4f_m - N_m = L = 4f_R + N_R$$

$$L = 1400 \pm \frac{19}{38} \text{ MM.}$$